Unit 1c-Add Within 100 Using Strategies

Content Area: **Mathematics**
Course(s): **Math 2**
Time Period: **Marking Period 1**
Length: **MP1 Topic 3 3-1 to 3-7**
Status: **Published**

Essential Questions

- What are strategies for adding number to 100?

Big Ideas

- **Add and Subtract on a Hundreds Chart:** Students will see regularity in the structure of the number system when they add on the hundred chart and subtract on a hundred chart.
- **Add and Subtract on an Open Number Line:** Students will use an open number line and the strategy of counting on to add.
- **Compose and Decompose Numbers to Add and Subtract:** Students will learn to break apart numbers to subtract.
- **Partial Sums Method:** Students will employ the partial sums method for adding within 100.
- **Foundations for the Standard Algorithms:** Students will use place-value blocks and place-value mats to demonstrate and explain regrouping, and 2-digit place-value frames to record the steps.
- **Properties and Relationships:** Students will add three or more 2-digit numbers.
- **One- and Two-Step Problems:** Students will solve one0 and two-step word problems involving addition and subtraction.

Cross-Curricular Integration

Integration Area: Language Arts

W.2.2 Write informative/explanatory texts in which they introduce a topic, use facts and definitions to develop points, and provide a concluding statement or section.

Activity:

Students complete a Math About Me activity. They will write facts about themselves while incorporating math.

Diversity Integration

Race and Ethnicity

Objective: Students will be able to create 2-digit addition number stories involving cultural food items.

Activity: Students will pick a food item from a country. Then they will create a 2-digit addition number story involving the food item of their choice.

CSDT Technology Integration

8.1.2.AP.1: Model daily processes by creating and following algorithms to complete tasks.

8.1.2.AP.5: Describe a program's sequence of events, goals, and expected outcomes.

Activity:

Students will use the EnVisions interactive website to problem solve and practice using addition strategies. The interactive games will help reinforce the current strategies as they practice different math problems.

Enduring Understandings

Operations and Algebraic Thinking

2.OA.A.1 Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem. Students may make sense of the ideas that plants need water and light to grow and that climate change affects the health of plants, animals, and people. In this unit, there would be an opportunity to measure variables and use the date to add and subtract within 100.

Number and Operations in Base Ten

2.NBT.B.5 With accuracy and fluency add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.

2.NBT.B.6 Add up to four two-digit numbers using strategies based on place value and properties of operations.

2.NBT.B.9 Explain why addition and subtraction strategies work, using place value and the properties of operations.

(Clarification: Explanations should be supported by drawings or objects.)

Mathematical Practices Focus

5. Use appropriate tools strategically.